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Date of Application, 17th June 1896

Complete Specification Left, 16th Mar., 1897—Accepted, 1st May, 1897

## PROVISIONAL SPECIFICATION.

An Appliance for Varying and Controlling the Direction of  
Discharge from Garden Hose and like Tubing.

We, JOHN HOWELL, of 3, Islington Road, Southville, Bristol, Mill Foreman, and HERBERT EDWIN CHATTOCK, of Penner Mills, Redcliff Street, Bristol, Engineer, do hereby declare the nature of this invention to be as follows:—

This invention consists in an appliance for varying and controlling the direction of discharge from garden hose and like tubing. The appliance which constitutes this invention consists of a gripping device for receiving and holding the stem or neck of the discharge nozzle of the hose, which gripping device is capable of being turned through a variety of angles on trunnions or journals supported on a bracket carried on a suitable stand. The gripping device which may be set at any required angle, consists, under one form of construction, of a bar curved downwards at or about midway between the trunnion supports. Over the hollow formed by curving the said bar fits a shorter bar which is curved upwardly, so that when it lies in place on the longer bar the two curved portions constitute a ring. By bolts and nuts the shorter bar is secured to the longer one. To insert the neck of the hose nozzle, one of the bolts by which the curved bars are secured together is removed and the shorter bar is turned about the other bolt to clear the way for the nozzle neck. After the neck has been laid in the hollow of the longer bar, the shorter one is returned over the nozzle neck and bolted in place, the nozzle neck being thus encircled by the curved portions of the two bars. Instead of fixing the shorter bar bolts at both ends, it may be hinged at one end and secured by a bolt at the other, or by a spring tongue, or other clasping or locking device.

The device for setting the gripper to any angle to which it may be turned, consists, under one form of construction, of a disc centred on one of the trunnions and having apertures provided in it arranged in circular series. A set pin passed through a hole in the support of the said trunnion and beyond it into one of the apertures of the disc retains the gripper at the angle to which such aperture appertains.

Instead of this device, for holding the gripper at any angle to which it is adjusted, a ratchet and pawl, or spring detent, may be used, or any other like or analogous device.

Dated this 16th day of June 1896.

NICHOLAS WATTS,  
Bristol, Chartered Patent Agent.

## COMPLETE SPECIFICATION.

35 An Appliance for Varying and Controlling the Direction of  
Discharge from Garden Hose and like Tubing.

We, JOHN HOWELL, of 3, Islington Road, Southville, Bristol, Mill Foreman, and HERBERT EDWIN CHATTOCK, of Penner Mills, Redcliff Street, Bristol, Engineer, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention consists in an appliance for varying and controlling the direction

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### Appliance for Varying and Controlling the Direction of Discharge from Garden Hose.

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of discharge of water from garden hose and like tubing. The appliance which constitutes this invention, consists of a gripping device for receiving and holding the hose and stem or neck of the discharge nozzle thereof, which gripping device is capable of being turned through a variety of angles on trunnions or journals supported in a bracket carried on a suitable stand. The gripping device, which may be set at any required angle, consists, under one form of construction, of a bar curved downwards at or about midway between the trunnion supports. Over the hollow formed by curving the said bar fits a shorter bar which is curved upwardly so that when it lies in place on the longer bar the two curved portions constitute an annular socket. By bolts and nuts the shorter bar is secured to the longer one.

To insert a hose and nozzle stem in the appliance, one of the bolts by which the curved bars are secured together is removed, and the shorter bar is turned about the other bolt, which is loosened, to clear the way for the hose. After the hose has been laid in the hollow of the longer bar, the shorter one is returned over the hose and is bolted in place, the hose being thus encircled by the curved portions of the two bars.

The device for setting the gripper to any angle to which it may be turned, consists, under one form of construction, of a disc centred on one of the trunnions and having apertures provided in it arranged in circular series. A set pin passed through a hole in the support of the said trunnion and beyond it into one of the apertures of the disc, retains the gripper at the angle to which such said hole appertains. 20

Referring to the accompanying sheet of illustrative drawings, Fig. 1 represents a front view of our improved appliance for holding garden hose and like tubing.

Fig. 2 is an end view, and Fig. 3 a plan.

Extending across the bracket  $a$ , which is supported on a stand  $b$ , is a bar  $c$  having at the ends journals  $c'$  loosely fitting apertures provided therefor in the sides of the bracket  $a$ . The bar  $c$  is free to be turned upon its journals in the bracket  $a$ .

At or about midway between its ends, the bar *c* is curved downwards as seen more particularly at Fig. 1 of the drawings. The dip thus formed in the bar *c* is covered by a shorter bar *d* curved upwards at or about midway between its ends, as seen more particularly at Fig. 1 of the drawings. The curved parts of the bars *c* and *d* constitute together an annular band for encircling the hose with nozzle stem inside it. The bar *d* is secured in place by bolts *e* and nuts *e*<sup>1</sup>.

To insert a hose and contained nozzle in the appliance, either of the bolts *e* is removed. The other bolt is sufficiently loosened and the bar *d* is then turned about it, as a pivot, to clear the way for the hose to be laid in the dip of the bar *c*. After the hose has been placed in position, the bar *d* is returned over the bar *c* and the bolts *e* are screwed up.

Instead of fixing the bar *d* by bolts at both ends, as shown in the accompanying drawings, it may be hinged at one end to the bar *c* and secured at the other end by a bolt, spring lock, or equivalent device.

The bar  $c$  is capable of being turned on its journals  $c^1$  through a variety of angles. An adjustable set pin  $f$ , passed through a hole in the bracket end and into a hole in the disc  $g$  which is rigidly secured on the journal of the bar  $c$  and therefore turns with it, retains the hose-holding device at the angle to which the hole appertains in which the set pin is inserted. The holes for the set pin are arranged in the disc  $g$  in circular series, as shown at Fig. 2.

At Fig. 4 is shown a sectional view of the appliance representing a hose *h* and a nozzle *i* gripped between the bars *c* and *d* and adjusted to an angle of 45 degrees.

By the use of the appliance in which this invention consists, the stream of liquid discharged from garden hose, or like tubing, can be held directed, for as long a

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## 20 reference Data

## Dati

*Appliance for Varying and Controlling the Direction of Discharge from Garden Hose.*

the appliance which is living and holding gripping devices is onions or journals being device, which instruction, of a bar supports. Over the which is curved two curved portions 10 or is secured to the

period of time as may be desired, to play at any angle which the range of available adjustment will allow.

Instead of making separate circular holes in the disc *g*, slots may be provided in the disc and fitted with an adjustable pin which is capable of being clamped on the disc. Or a ratchet wheel and pawl may be used, or any equivalent device.

Having now particularly described and ascertained the nature of this invention, and in what manner the same is to be performed, we declare that what we claim is :—

- 10 1. An appliance for holding garden hose and like tubing, consisting of a socket supported and arranged to turn in a bracket carried on a suitable stand, and having combined therewith means for retaining the socket at any angle which the range of movement available allows, substantially as hereinbefore described.
- 15 2. An appliance for holding at various angles garden hose and like tubing, said appliance consisting of a curved bar such as *c* free to turn in end supports and a curved bar such as *d* fitted to be secured to and removable from the bar *c*, a perforated disc such as *g* fixed to the bar *c*, and adapted to be held, with the latter, by a set pin such as *f*, at various angles through which they may be turned, or the equivalent of such disc and set pin, substantially as hereinabove described with reference to the accompanying sheet of illustrative drawings.

Dated this 13th day of March 1897.

NICHOLAS WATTS,  
Bristol, Chartered Patent Agent.

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Fig. 1.

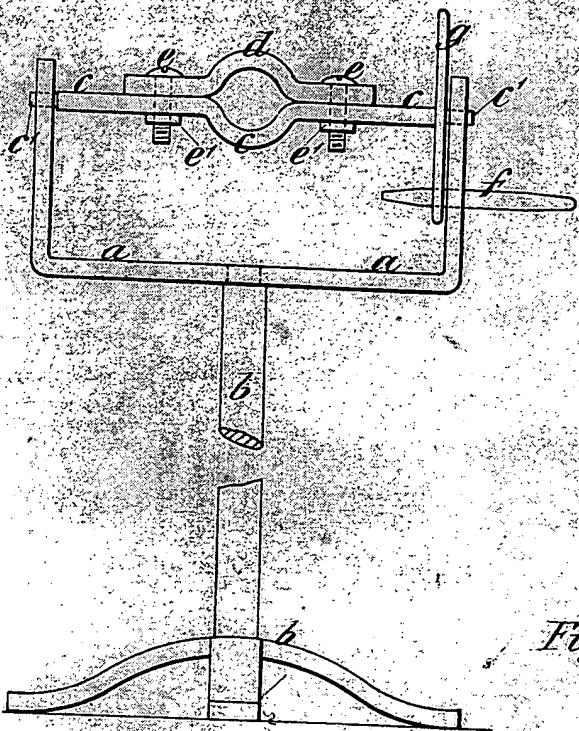


Fig. 2.

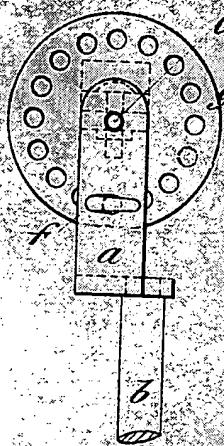


Fig. 4.

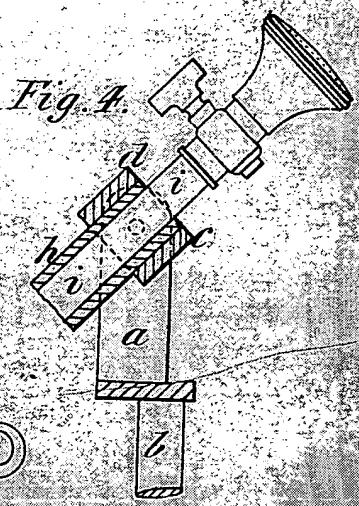
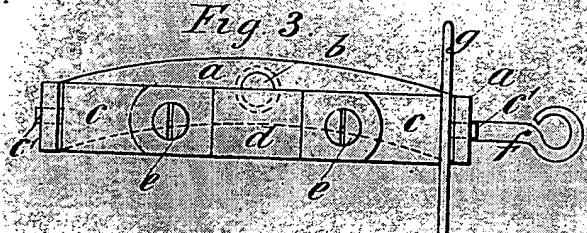


Fig. 3.



*[This Drawing is a reproducton of the Original on a reduced scale.]*